

Abstract

A flexure pivot in the form of a thin material connection formed as a result of adjacent material-free spaces is disclosed, as is a force-transfer mechanism for use in a force-measuring device, in particular a balance, containing at least one flexure pivot of the aforementioned type. The force-transfer mechanism has a stationary portion with a lever arrangement comprising at least one reduction lever and serving to transmit a force to a measuring transducer, and it further has at least one coupling element serving to introduce an input force into the lever arrangement, the coupling element being stiff against lengthwise deformation but flexible with regard to bending and having at least one thin material connection. The at least one lever is supported on the stationary portion and/or on a preceding lever by a flexible fulcrum pivot having a thin material connection. At least one thin material connection zone of a thin material connection is delimited by concave-shaped surfaces facing material-free spaces, and at least one of the material-free spaces delimiting the thin material connection zone has a shape that creates a constriction of the thin material connection zone.